BRUHAT BANGALORE MAHANAGARA PALIKE
YALAHANKA ZONE, PROJECT DIVISION
BYTARAYANPURA

Name of Work: Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06.

1st & PART BILL

TEST REPORTS

TEJUS CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No.58 MIG, 6th Cross, 3rd Main
1st Stage, Basaveshwaranagar
Bangalore-560079
☎ 080 - 23287532
email: tejusconsultants@gmail.com

TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhath Bangalore Mahanagara Palike
Project	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Total Weight in gms	3000

SIEVE ANALYSIS

Type of Material	40 mm down size	Proposed Use	PCC
Sample Location	Dasarahalli main road	Date of Sampling	14-09-2020
		Date of Testing	15-09-2020

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	88	88	2.93	97.07	95-100
20.00mm	1445	1533	51.10	48.90	30-70
10.00mm	954	2487	82.90	17.10	10-35
4.75mm	457	2944	98.13	1.87	0-5
Pan	56	3000	100.00	0.00	

Remarks : Satisfactory / Not Satisfactory

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4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

A.E.E. (Project)

TEJUS CONSULTANTS

Authorised Signatory

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Test Report on Cement

Project	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	14.09.2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	123 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	558 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	9 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	25 % to 35

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A.E.E. (Project)

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06.
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SIEVE ANALYSIS

Total Weight:	3000 gms			
Type of Material	Fine aggregate (M sand)	Proposed Use	PCC	
Sample location	Dasarahalli main road	Date of Sampling	14-09-2020	
		Date of Testing	15-09-2020	

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
4.00 mm	0	0	0	100.00	100
4.75 mm	222	222	7.40	92.60	90 - 100
2.36 mm	319	541	18.03	81.97	75 - 100
1.18 mm	405	946	31.53	68.47	55 - 90
0.600 mm	475	1421	47.37	52.63	35 -59
0.300 mm	753	2174	72.47	27.53	8-30
0.150 mm	628	2802	93.40	6.60	0 - 10
Pan	198	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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Authorised Signatory

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (M sand)	Proposed Use	PCC
Location/Source	Dasarahalli main road	Date of Sampling	14-09-2020
Period of Soaking	24 hours	Date of Testing	15-09-2020

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.		661	642	641	
B	Weight of oven - dry sample gm.		652	625	666	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1690	1676	1698	
E	Bulk specific gravity	B / (C + A - D)	2.650	2.593	3.055	2.766
G	Absorption (%)	(A - B) *100 / B	1.380	2.720	-3.754	0.116

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KERB STONE (CORE) TEST REPORT

Name of Work	:	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06.
Client	:	Bruhat Bengaluru Mahanagara Palike
Contractor	:	Sri. P Hemanth (SOORYA CREATERS)
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
No.of Sample Tested	:	3
Date of Testing	:	29-09-2020
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength	Corrected Cylinder Compressive Strength (N/mm^2)	Equivale Cube Compres ve Strengt
1	50.00	85.00	0.395	2366.73	1.70	0.960	29.78	15.17	16.38	15.72	19.66
2	50.00	85.00	0.381	2282.84	1.70	0.960	29.60	15.08	16.28	15.63	19.54
3	50.00	85.00	0.384	2300.82	1.70	0.960	29.59	15.07	16.28	15.62	19.53

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A.E.E. (Project)

TEJUS CONSULTANTS

Consultant's Representative

TEJUS
CONSULTANTS

KERB STONE (CORE) TEST REPORT

Name of Work	:	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06.
Client	:	Bruhat Bengaluru Mahanagara Palike
Contractor	:	Sri. P Hemanth (SOORYA CREATERS)
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
No.of Sample Tested	:	3
Date of Testing	:	29-09-2020
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength	Corrected Cylinder Compressive Strength (N/mm^2)	Equivale Cube Compres ve Strengt
1	50.00	85.00	0.395	2366.73	1.70	0.960	29.78	15.17	16.38	15.72	19.66
2	50.00	85.00	0.381	2282.84	1.70	0.960	29.60	15.08	16.28	15.63	19.54
3	50.00	85.00	0.384	2300.82	1.70	0.960	29.59	15.07	16.28	15.62	19.53

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Consultant's Representative

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	20 mm down size	Proposed Use	Concrete
Sample Location	Dasarahalli main road	Date of Sampling	15-10-2020
		Date of Testing	16-10-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	272	272	2.72	97.28	95 - 100
10.00 mm	4858	5130	51.30	48.70	25 - 55
4.75 mm	4212	9342	93.42	6.58	0 - 10
Pan	658	10000			

Remarks : Satisfactory / Not Satisfactory

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TEJUS CONSULTANTS

Authorised Signatory

A.E.E. (Project)

TEJUS CONSULTANTS
No. 58, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, O : +91 80 23287532, tejusconsultants@gmail.com

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06.	
Consultants	TEJUS CONSULTANTS	
Contractor	Sri. P Hemanth (SOORYA CREATERS)	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size	Proposed Use	CONCRETE
Sample Location	Dasarahalli main road	Date of Sampling	15-10-2020
		Date of Testing	16-10-2020

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	516	516	5.16	94.84	90-100
10.0	4597	5113	51.13	48.87	40-85
4.75	4452	9565	95.65	4.35	0-10
Pan	435	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of CC Drains and Roads in RK Hegdenagar 2nd Main and Surrounding Roads in Ward No.6.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (M sand)	Proposed Use	concrete
Location/Source	Dasarahalli main road	Date of Sampling	15-10-2020
Period of Soaking	24 hours	Date of Testing	16-10-2020

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	649	654	655	
B	Weight of oven - dry sample gm.	640	642	648	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1682	1683	1690	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.645	2.610	2.700	2.651
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.406	1.869	1.080	1.452

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of CC Drains and Roads in RK Hegdenagar 2nd Main and Surrounding Roads in Ward No.6.
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate (M sand)	Proposed Use	concrete
Sample Location	Dasarahalli main road	Date of Sampling	15-10-2020
		Date of Testing	16-10-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	228	228	7.60	92.40	90 - 100
2.36 mm	323	551	18.37	81.63	75 - 100
1.18 mm	428	979	32.63	67.37	55 - 90
0.600 mm	495	1474	49.13	50.87	35 -59
0.300 mm	717	2191	73.03	26.97	8-30
0.150 mm	647	2838	94.60	5.40	0 - 10
Pan	162	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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TEJUS
CONSULTANTS

Test Report on Compressive strength of Solid Block

Project	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Cross sectional area	80000mm2
Size of cube	400mm x 150mm x 200mm
No. of Block Tested	1
Reference IS code:	IS:2185 (Part 1)- 2005

Sl.No.	Date of Sampling	Date of testing	Area of Cube	Failure load	Compressive strength	Obtained Average compressive strength	Minimum Required compressive strength of individual units
			mm^2	KN	N/mm^2	N/mm^2	N/mm^2
1	16-10-2020	17-010-2020	80000	405.00	5.06	5.04	5.00
2	16-10-2020	17-010-2020	80000	401.00	5.01		
3	16-10-2020	17-010-2020	80000	404.00	5.05		

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TEJUS CONSULTANTS

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Test Report on Cement

TEJUS CONSULTANTS

Project	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	16-10-2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	106 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	384 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	29.00%	25 % to 35

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GRADATION FOR GSB
(As per MORT&H 400-1,Grading-II)

Name of Work	:	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06.
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	Sri. P Hemanth (SOORYA CREATERS)
Date of Testing	:	27-10-2020
Type of Mix	:	GSB
Sample I/D	:	GSB1

Sample Location:	15th Cross, Hegdenagar 2nd main	Date of Sampling:	26-10-2020	
		Date of testing:	27-10-2020	
Type of material & Purpose:	GSB	Oven Dry Wt.(gms):	10000.0	

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
75	0	0	0.00	100.00	-
53	0	0	0.00	100.00	100.00
26.5	2215	2215	22.15	77.85	70-100
9.5	2632	4847	48.47	51.53	50-80
4.75	897	5744	57.44	42.56	40-65
2.36	1112	6856	68.56	31.44	30-50
0.425	1957	8813	88.13	11.87	10-15
0.075	834	9647	96.47	3.53	<5
Pan	353.0				
Total	10000.0				

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Project	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06.
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	M/s Tejus Consultants
Contractor	Sri. P Hemanth (SOORYA CREATERS)

Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28))

Date of Testing	27-10-2020		
Layer no. or level	GSB layer		
Depth of hole	200mm		
Field density:	1	2	2
Chainage	15th Cross road,Hegdenagar 2nd main '@130.00	15th Cross road,Hegdenagar 2nd main '@130.00	15th Cross road,Hegdenagar 2nd main '@130.00
Wt. of wet material from hole (Ww) gms.	5975	5988	5994
Wt. of sand+cylinder before pouring (w1) gms.	15000	15000	15000
Wt. of sand+cylinder after pouring (w2) gms.	10582	10576	10572
Wt. of sand in hole+ cone (w3) gms.	4418	4424	4428
Wt. of cone gms.	1080	1080	1080
Wt. of sand gms.	3338	3344	3348
Bulk density of sand (γs)gm/cc	1.32	1.32	1.32
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	2.36	2.36	2.36
Moisture meter reading(moisture content)	6.50	6.40	6.40
Result			
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	2.22	2.22	2.22
MDD	2.25	2.25	2.25
OMC	6.30%	6.30%	6.30%
% compaction obtained	98.60	98.73	98.71
% compaction required	98%	98%	98%

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (M sand)	Proposed Use	PCC
Location/Source	Dasarahalli main road	Date of Sampling	04-11-2020
Period of Soaking	24 hours	Date of Testing	05-11-2020

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	661	640	667	
B	Weight of oven - dry sample gm.	655	626	660	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1692	1676	1694	
E	Bulk specific gravity B / (C + A - D)	2.684	2.619	2.661	**2.655**
G	Absorption (%) (A - B) *100 / B	0.916	2.236	1.061	**1.404**

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Test Report on Cement

Project	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	04.11.2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	113 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	548 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	8 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	25 % to 35

Note:

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3. Any Query regarding the report must be reported reported within 15days from the date of testing.
4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

TEJUS CONSULTANTS

Authorised Signatory

A.E.E. (Project)

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06.
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate (M sand)	Proposed Use	PCC
Sample Location	Dasarahalli main road	Date of Sampling	04-11-2020
		Date of Testing	05-11-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
4.00 mm	0	0	0	100.00	100
4.75 mm	210	210	7.00	93.00	90 - 100
2.36 mm	322	532	17.73	82.27	75 - 100
1.18 mm	426	958	31.93	68.07	55 - 90
600 mm	488	1446	48.20	51.80	35 -59
0.300 mm	752	2198	73.27	26.73	8-30
0.150 mm	630	2828	94.27	5.73	0 - 10
Pan	172	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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A.E.E. (Project)

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Authorised Signatory

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TEST REPORT

Clients	Bruhath Bangalore Mahanagara Palike
Project	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material	40 mm down size	Proposed Use	PCC
Sample Location	Dasarahalli main road	Date of Sampling	14-11-2020
		Date of Testing	15-11-2020

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	89	89	2.97	97.03	95-100
20.00mm	1420	1509	50.30	49.70	30-70
10.00mm	975	2484	82.80	17.20	10-35
4.75mm	458	2942	98.07	1.93	0-5
Pan	58	3000	100.00	0.00	

Remarks : Satisfactory / Not Satisfactory

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